Elakely, Sokoloff, Taylor & Zafman LLP (714) 557-3800 Title: COMBINED TAG AND DATA ECC FOR ENHANCED SOFT ERROR

RECOVERY FROM CACHE TAG ERRORS
1st Named Inventor: Nhon Toai Quach

Express Mail No.: EV387144732US

Sheet: 1 of 7

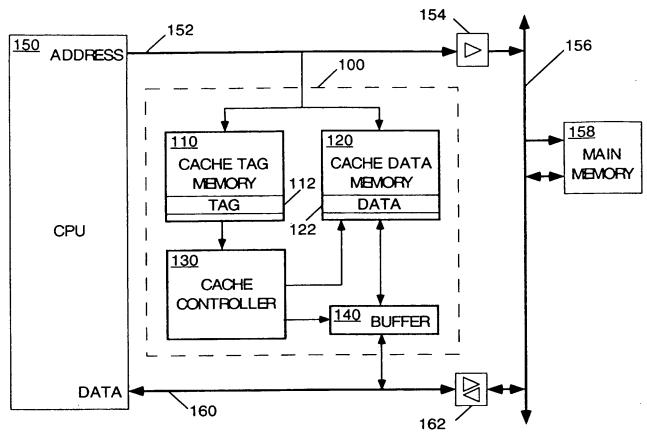


FIG. 1
(PRIOR ART)

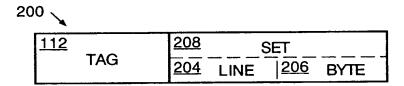
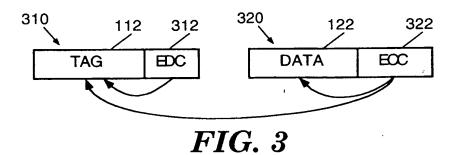


FIG. 2
(PRIOR ART)



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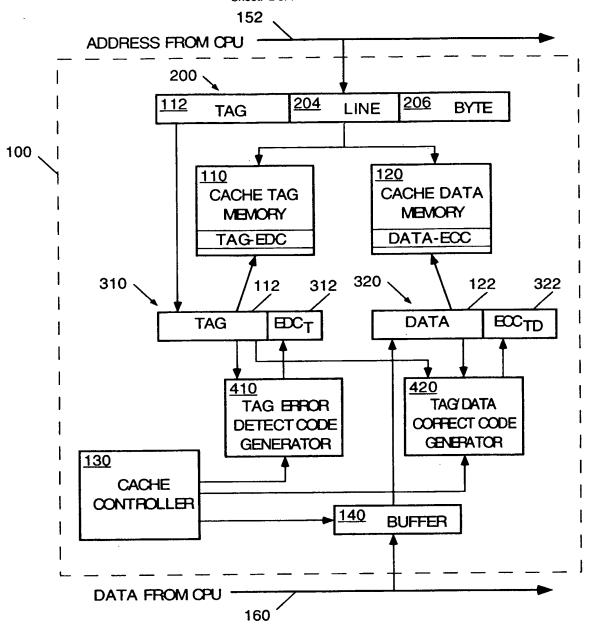


FIG. 4

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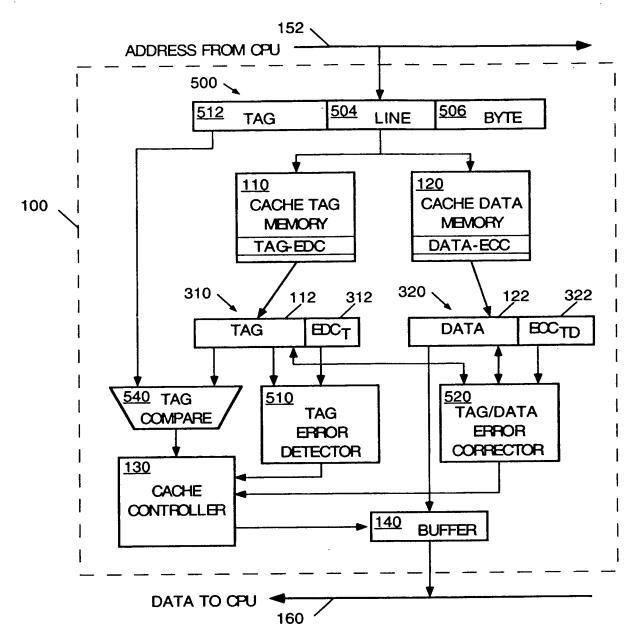


FIG. 5a

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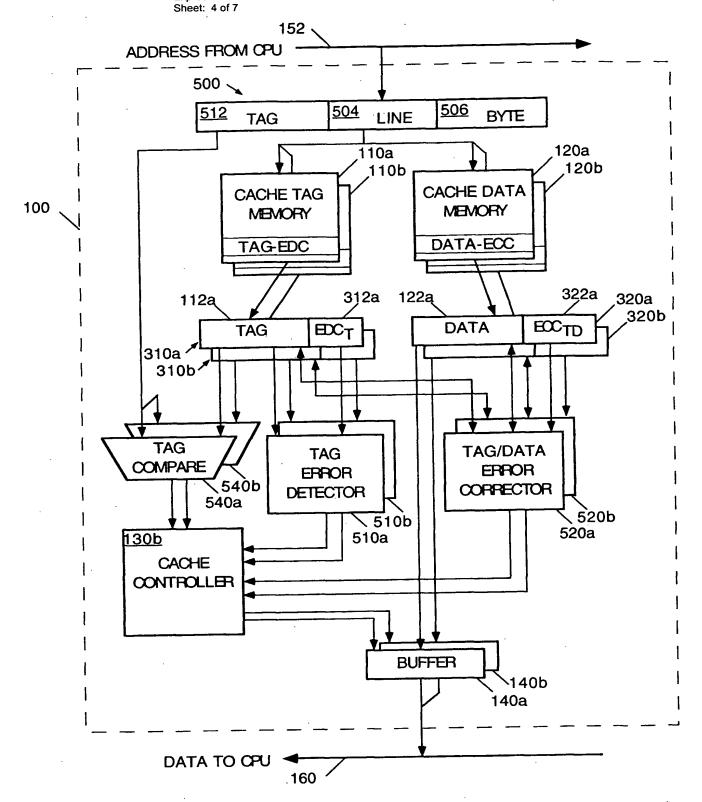


FIG. 5b

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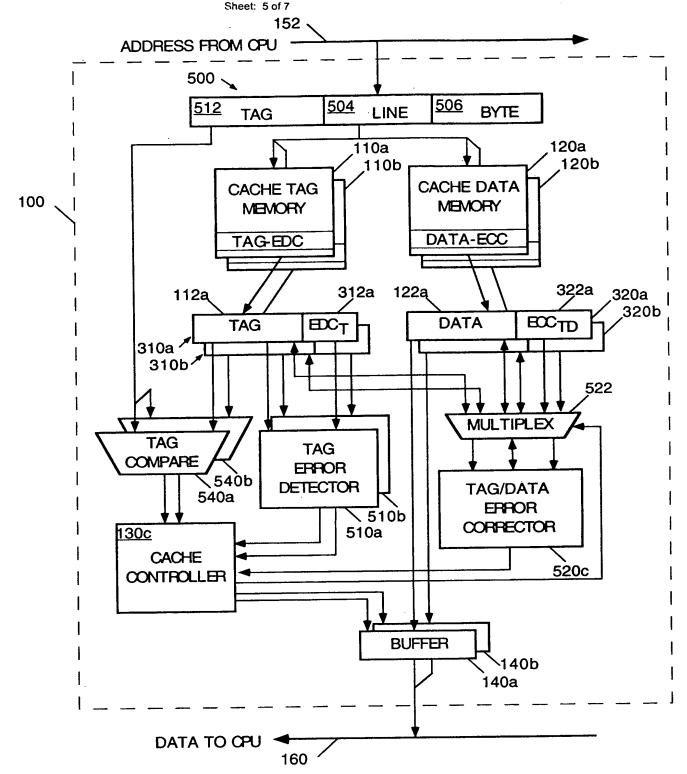


FIG. 5c

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Title: COMBINED TAG AND DATA ECC FOR ENHANCED SOFT ERROR (714) 557-3800 RECOVERY FROM CACHE TAG ERRORS 1st Named Inventor: Nhon Toai Quach Docket No.: 42P5725C Express Mail No.: EV387144732US Sheet: 6 of 7 620 610 622 624 614 612 ECC 12 SYMBOL₂ EDC₁ SYMBOL₁ FIG. 6 710 720 722 724 712 ECC_{1D2} SYMBOL₂ SYMBOL₁ EDC₁ FIG. 7 820 830 810 832 834 822 824 812 814 ECC 2B SYMBOL2B SYMBOL2A ECC_{2A} SYMBOL₁ EDC₁ **FIG.** 8 920 910 922 924 912 914 SYMBOL₂ EDC₁ ECC_{12'} SYMBOL₁ FIG. 9 1020 1010 1012 1014 1022 1024 SYMBOL₂ ECC₁₂ SYMBOL₁ EDC₁ FIG. 10

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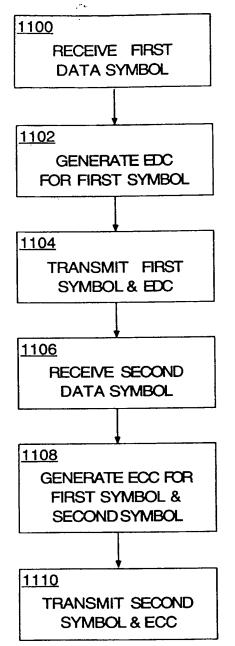


FIG. 11

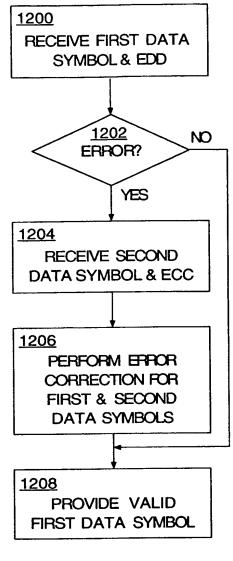


FIG. 12